

## METHOD AND APPARATUS FOR BANDWIDTH ESTIMATION

### ABSTRACT OF THE DISCLOSURE

A computationally efficient method and apparatus for estimating the  
5 bandwidth of a received signal. In an exemplary implementation, signal power  
within several selectably narrow frequency bands, each centered about a  
selected frequency, are calculated using only a relatively small number of  
arithmetic operations. Applications include using the estimated bandwidth to  
estimate the relative velocity between the transmitter and receiver, and  
10 modifying receiver operation based on such estimate.